



*Bailey*

*President's Report*

**MILLSAPS  
COLLEGE**

**1958**



*To*

THE BOARD OF  
TRUSTEES OF  
MILLSAPS COLLEGE

## *Gentlemen:*

In the design of its program and in the determination of its purpose, a college decides what it thinks should happen in the lives of its students. A college examines carefully what it hopes will happen and how it can help it to happen.

This is a special concern of Millsaps College for two primary reasons. Like any Christian institution, this College is interested in the individual. Students trust us with their undergraduate education. They put their lives in our hands for four strategic years. The second reason for our primary interest in what happens to the student is the recognition of our responsibility for the preparation of leaders and followers in church, in community, and in the nation. Leaders properly educated we must have. No person, however, is a leader everywhere. He is simultaneously a follower. Leaders in church—clergymen and laymen alike—must be the right kind of constituent followers in politics, in civic affairs, in national and international issues.

The concern of this Church College is its dual responsibility to students and to the communities these students will serve and lead.

Now that we have reached the end of another academic year with a recommendation that degrees be approved for 180 young men and women, it is appropriate for us seriously to inquire: Has our purpose been fulfilled? Has what we think should have happened to these graduates happened?

The graduates will bear an additional label now. Already they have a name, a nation, a race, a sex, a religious denomination or faith. Now they will acquire an additional label: Graduate of Millsaps College. That is all that can be said at the moment. It is to be hoped that the future will justify a change in the label so that it will read: Educated at Millsaps College! There is good reason to believe that for an appreciable number of the graduates this will be justified.





## *Politics*

Politics is appropriately mentioned as one of the pressing needs of our day. Statesmanship or government service or diplomacy might have been better labels. Our interest is with politics both professionally and voluntarily, formal and informal. It is with responsible participation in public affairs at all levels, to the end that our nation can be strengthened, our international affairs improved, and justice exercised in all relationships.

In this connection, Millsaps College's "Washington Semester" program at the American University is serving a useful purpose. This year two juniors spent the fall semester in Washington studying at the American University and observing first-hand the structure and operations of our national government. This fall, four students will study there, having been selected from seven qualified applicants. The Methodist Church is assisting the American University in establishing its School of International Study. This graduate program is designed to train men and women in the Protestant tradition for diplomatic posts and for other government service. It is hoped that Millsaps College will send some of our best graduates into this program.

## *Teaching*

Probably the most pressing need today is for qualified teachers, particularly at the college and university level. There is an urgent need today for Christian scholars in church colleges and in state universities. They must be scholars of the first rank. The Christian faith demands no less. Their

minds must be sharp enough to stand steadfastly against the pressures of secularisms and other religions. This is a difficult assignment. One is almost overwhelmed by the odds, the obstacles, the opposition. And yet it is a challenge which we reject at grave peril. For the production of such strategic persons, colleges like this one bear a major responsibility.

There was created last fall a new standing committee of the faculty which was asked to work intensively in the area of identifying and stimulating the appropriate students who should consider teaching as a career. The committee has enlisted the support of the entire faculty. Some results have already been noted. It is our belief that approximately twenty of the seniors pursuing graduate study this fall have some plans to teach at the college level. A heavy responsibility for recruiting college teachers lies with the professors themselves. A corresponding responsibility lies with the nation's citizens to provide recognition, appreciation, compensation, and community status.

# *Preaching*



If there is a more pressing need than that for qualified teachers, it is the need for qualified preachers. There is time here only for underscoring the need. The times are always ripe for great and good preaching. Our day is no exception. With the advent of the Satellite Age—both in and out of the earth's gravity—the need for vigorous, imaginative, resourceful, spiritual leadership is acute. All else depends upon it.

Happily, preaching is no longer restricted to the conventional pulpit. There are opportunities for institutional ministers—in colleges, hospitals, factories, prisons, military establishments, homes for the aged and for children. There are opportunities,

too, for ministers of recreation for young and old—this could be an answer to an appreciable part of our juvenile delinquent problem. There is the specialized ministry of radio, television, the theater, the arts. And the opportunities for ministers of education and for foreign missionaries are opening wider and wider. The so-called "foreign" missionary will have to be called by some other name now, but will do the same work that has always been urgent, except that he must be trained to do it better.

The task of the church and the college is first of all to identify the qualified men and women for the Christian ministry and then to give them the best educational opportunities and obligations possible. Fifteen of this year's graduates will study in the theological seminaries—at Candler, Perkins, Duke, Boston, and Yale. The number should be doubled!

# The Faculty



The first part of this report has to do with what has happened to the students and with what we hope will happen through them and because of them.

This part of the report has to do with the faculty. If one talks of what has happened to the students, he has already spoken of what the faculty has done. Some few students might be expected to grow, develop, aspire, and persevere without formal and patient instruction. The achievements of most students are the combined results of efforts on their part and on the part of their instructors.

In every President's report the Board's attention is called to the quality of our instructional program. This cannot be done too often or too enthusiastically. Look with me at scholarship, preparation, devotion to teaching, attitude, patience with students, loyalty to Millsaps College, willingness to work long hours on extra tasks,

usefulness to church and community, Christian character and integrity—and you will see that these noble attributes are to be found in abundance among our faculty. There are heavy work loads with a minimum of complaints. There are numerous committee assignments, which are cheerfully and efficiently met. There are requests for services from the local community and from the state, which are generously accepted.

A thoughtless administration can too often request an instructor's time and energies that should properly be devoted to study. The administration attempts to be sensitive to this danger. It is believed that the faculty recognizes our concern.

The addition of the twenty-four new air-conditioned offices in Murrah Hall has made more enjoyable and efficient the work of many of our faculty. Air-conditioner units have been placed in other offices so that summer work can be made more comfortable. For the first time in the history of the College every member of the faculty has a private office.

# *Development Committee*

There was established a year ago the Development Committee of the Faculty. Composed of the President as chairman, the Dean, and five representative members of the faculty, the committee has been requested to consider a number of matters having to do with strengthening the College and increasing its usefulness.

The College's official statement on academic rank, tenure, salary schedule, academic freedom, and sabbatical leave was one of the first matters to engage our study. The statement, adopted unanimously by the faculty and the Board in 1953, has been exceedingly useful in the administration of the affairs of the College. The statement has also helped us appreciably in attracting well-qualified new faculty. The Development Committee felt with good reason that the statement needed revisions at several points. These revisions have been carefully considered and have been submitted both to the faculty and to the Instruction Committee of the Board

for approval and for the Board's final consideration and adoption.

The Development Committee has recommended that Millsaps College engage in a self-study survey, the study to be in progress for the next two years. The study will include an examination of all phases of the College's life — including general administration, faculty organization, the library, enrollment, class sizes, curriculum, instruction, student personnel services, physical plant and equipment, income and expenditures, and alumni activities.

After assembling the pertinent facts and data, the College will invite a qualified consultant or a team of consultants to confer with us regarding the structure and operations of the College. We recommend the survey prepared by the University Senate of the Methodist Church. It is further thought that the Southern Association of Colleges and Secondary Schools will be asked to include Millsaps College on its next list of member institutions that



will be studied. The concern of the entire faculty and of the Board is that we continuously subject our program to study and criticism with a view to correcting weaknesses and preserving strength.

The Development Committee will subsequently have recommendations regarding maximum enrollment, minimum faculty needs, and minimum financial resources. In the determination of the last of these items, consultation with the appropriate Board committees will be scheduled. The Board's consideration of the entire planning will be the final step.

# *Faculty Personnel*



*Dr. Alfred Porter Hamilton*, for forty-one years a member of the Millsaps College faculty, retires at the end of this academic year. Dr. Hamilton is one of the most distinguished teachers ever to serve any college community. His scholarship, his culture, his character, his versatility, his personality, his churchmanship, his civic usefulness are widely recognized, respected, and admired.

So rare a feat is it for a man to serve one faculty for more than two score years, teaching adequately and effectively three languages, that the record merits special consideration. It is therefore recommended that the Board of Trustees establish the Alfred Porter Hamilton Chair of Classical Languages, the endowment to come from special gifts supplemented if necessary by an allocation of General Endowment funds.

*Miss Mildred Morehead* has served effectively and graciously as Dean of Women for the last five years. She has asked to be relieved of the administrative responsibility in order to resume full-time teaching. Appreciation is appropriately expressed here for her work during these years.

## NEW MEMBERS of the Faculty and Staff for 1958-59

MR. HARRY ASH, Visiting Instructor, Department of History, replacing Mr. Grady McWhiney, who will be on leave for study.

MR. WILLIAM H. BASKIN, JR., Associate Professor and Acting Chairman, Department of Romance Languages, replacing Dr. A. G. Sanders, who has been retired.

MRS. KAY COOLEY, Associate Librarian, replacing Mrs. Martha Lang, who resigned.

DR. ELMER DEAN CALLOWAY, Associate Professor, Department of Chemistry, replacing Dr. Frank James, who resigned.

MRS. ELMER DEAN CALLOWAY, Assistant Librarian, replacing Mrs. Bond Fleming, who resigned.

MR. EDWARD M. COLLINS, Instructor in Speech.

MISS MARY ANN EDGE, Instructor in Physical Education, replacing Miss Jean Sain, who resigned.

MRS. RUFUS PEEBLES, Dean of Women.

DR. JAMES DAVID POWELL, Associate Professor, Department of Teacher Education.

MR. JONATHAN SWEAT, Associate Professor, Department of Music, replacing Mr. Glenn Welsh, who resigned.

MR. V. G. TEMPLE, Visiting Professor, Department of Mathematics, replacing Dr. T. L. Reynolds, who is on sabbatical leave.

# Library

The Millsaps-Wilson Library is becoming more and more an academic focal point of the campus. The library staff and the library committee of the faculty have given careful attention to a wise acquisition, protection, and use of books. Each department of the College is now checking the library holdings against standard bibliographies in an effort to ascertain our book needs. This study, which will be continued during the 1958-59 academic year, has created an appreciable interest in book selection.

A Rare Book Room has been designated on the third floor of the library building. Old, rare, curious, and irreplaceable books will be placed there. This is designed to protect the books and to dramatize their value.

The beautiful building will be of wider use as we increase and improve

the number and quality of books. The book budget has been increased by 60% in the last three years. This appears to be an admirable increase. It does represent progress. The number of dollars involved, however, is not so impressive. The present book budget for library purposes could be doubled, and the figure would remain conservative.

An effective and appropriate way of increasing our library holdings is through gifts of money and of good books. The Library was able to purchase more than 100 volumes during the past year because of gifts of money. Some of the gifts were generous contributions to the College. These include generous gifts from the United States Steel Foundation, Mr. John K. Foster, of Jackson, and Mrs. D. H. Hall, of New Albany. Other gifts were memorials.



# Religious Life Program

Broadly speaking, all of the program of Millsaps College is directly or indirectly related to religion. A student learns of God in the study of the natural sciences. He learns of beauty and wisdom and truth in the study of great literature. He sees the laws and ways and purposes of God in the study of history and philosophy. He sees man's need for God in the study of psychology, in sociology, in politics, in economics, and in anthropology. He sees God's need for man in the study of everything.

This past year has seen the establishment of an office for the Director of Religious Life. The Director has worked closely with the various denominational groups and with the Christian Council, the organizational structure designed to coordinate the various religious activities.

It is a significant fact that a dozen different denominations are represented in the student enrollment.



## Advising and Counseling

One aspect of the religious philosophy of Millsaps College is the concern for appropriate advising and counseling. The success of students in their achievements can be traced to an effective counseling program. All of the faculty and the administrative staff share this service. It includes personal work in academic needs and opportunities. It also includes vocational guidance, religious counseling, conferences in a wide variety of personal needs and interests.

## Social, Cultural, and Recreational Activities

One other phase of student-faculty relations deserves a comment. The Library and the new Student Union provide opportunities for activities of a social, cultural, and recreational nature. Week-end programs have been presented in both of these centers—programs on art, history, music, current events, philosophy. The Library and the student center have also provided a number of interesting exhibits. The student center has greatly improved and increased the on-campus recreational facilities. Week-end movies in the cafeteria have made possible inexpensive entertainment for students and their friends.

# *New Buildings*

If we were able to bring every Millsaps College alumnus, every Mississippi Methodist, every Millsaps friend in and out of Jackson, every prospective student and his parents, how revealing it would be to have these people see the physical developments on our beautiful college campus!

The \$600,000 Student Union-Cafeteria Building is as beautiful and as adequate as any such building on any college campus in America. The conversion of the old auditorium area in Murrah Hall into twenty-four faculty offices and seven class rooms has been an amazing transformation.

In September, 1958, two new dormitories will be ready for occupancy—

spaces for 136 men and for 100 women. The rooms and the auxiliary services are again accommodations equal to any college housing in our nation. With the addition of these new dormitories, the college will be able to return to a normal capacity of two students to each room. The auxiliary housing units off the campus will be discontinued.

It is recommended to the Board that the new residence hall for men students be named Ezelle Hall, in honor of Mr. R. L. Ezelle. It is further recommended that the new residence hall for women students be named Fae Franklin Hall, in honor of Mrs. Marvin A. Franklin.





# Finances

And now, what has happened and what is happening to the financial picture at Millsaps College?

The income budget projected a year ago and adjusted at the February Board meeting was accurately planned. Because of the generous response of many people, coupled with admirable economic management of the College's business, we again conclude the fiscal year without an operating deficit. Attention is appropriately called here to some of the major sources of income in addition to student tuition and fees.

## 1. THE GENERAL ENDOWMENT

The Treasurer of the College and the Finance Committee of the Board continue to administer wisely and successfully the permanent funds. Our chief regret here is that they do not have more money to invest! Our attention needs continuously to be given to increasing substantially the general endowment. This is money which is urgently needed for increasing expenses. The endowment can grow in two ways—a multitude of small gifts and a few large gifts. We need to concentrate on both

ways. These gifts can come by cash contributions, by bequests, and/or by gifts of property. The thousands of friends of the College may begin to see their opportunity to interest a potential donor in making a gift or a bequest to a Church College that will be used for Christian higher education for generations.

## 2. THE METHODIST CHURCH

Due to the enthusiastic promotion of Christian higher education by Bishop Franklin and by hundreds of ministers and laymen, and due further to the generous response of devoted Methodist churchmen, the College this year receives \$100,530 from the two Conferences for operating purposes. This is the largest amount ever given in one year's time. Our gratitude to all who are responsible for this record is profound. With the steady progress realized in recent years, it is believed that by 1960 we will reach the minimum goal of \$1.00 per member per year for the support of the Church College. This goal is modest enough for a Church College. It may be too modest for a Church that takes seriously its responsibility to young people, to society, and to God.

## 3. THE ALUMNI

Alumni of the College, increasingly aware of their debt to their Alma Mater, also gave the largest amount of money ever given in a single year—\$17,611. Special mention should be made of the arduous work of Mr. George Pickett, who was the 1957-58 Chairman of the Alumni Fund. He was ably assisted by scores of alumni who served as class managers.

A special issue of MAJOR NOTES, the alumni quarterly, will list these donors.

# *Other Friends*

## OF THE COLLEGE



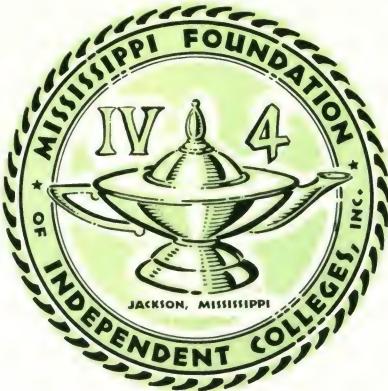
In addition to alumni gifts and to library gifts, Millsaps College has received a number of contributions from other friends and organizations. These are as follows:

Alpha Phi Omega, Millsaps College  
Honorary  
Roy Boggan, Tupelo  
W. M. Buie Estate, Jackson  
Mrs. Meddie Cox, Jackson  
Esso Education Foundation  
D. E. Field, Columbus  
Hal Fowlkes, Wiggins  
Mr. and Mrs. J. Paul Faulkner, Jackson  
Marvin A. Franklin, Jackson

The gifts total almost \$10,000 and range in size from \$5.00 to \$1,500. The College is indebted to these friends for their generous expression of interest.

This list of "Other Friends of the College" can be multiplied several times. Hundreds of friends of Christian education can be inspired to make an annual gift to Millsaps College. This gift is a substantial help in keeping the College strong and solvent. It can also be appropriately considered as an investment in the future leadership of our nation and of the Church.

Ewin Gaby, Jackson  
General Motors Corporation  
E. L. Gulledge, Crystal Springs  
Jackson Civitan Club  
Jackson District, Woman's Society of Christian Service, Mrs. Earl Phillips, President  
James Hand, Jr., Rolling Fork  
Miss Phoebe M. Kandel, Jackson  
Miss Hallie Loftin, Jackson  
Millsaps College Majorette Club  
Ben F. Middleton, Jackson  
Merrill Lynch, Pierce, Fenner and Smith  
Mr. and Mrs. DuAine Morgan, Yazoo City  
Mrs. T. J. O'Ferrall, Jackson  
Seale-Lily Ice Cream Company, Jackson  
C. C. Sullivan and Family, Hattiesburg  
The Texas Company  
Theta Nu Sigma, Millsaps College  
Honorary  
Mr. and Mrs. G. B. Thompson, Pakistan  
Vestal and Vernon Agency, Jackson  
Yeagley's, Inc., Jackson  
Dan White, New Orleans



# The Mississippi Foundation of Independent Colleges

This organization of the private accredited colleges of our state is only two years old. It was begun for the purpose of jointly soliciting funds from corporations, industries, and other business organizations. The College this year has realized \$13,050 from the Foundation.

So appreciative are we of the interest of these organizations that we list them here:

Addressograph-Multigraph Corp., Cleveland, Ohio  
American Oil Co., New York, N. Y.  
Armstrong Cork Co., Jackson  
Blue Bell Co., Tupelo  
Babcock and Wilcox Co., West Point  
Bryan Brothers Packing Co., West Point  
Chemical Transportation Corp., Yazoo City  
Columbus Marble Works, Columbus  
Continental Can Co., New York, N. Y.  
Franklin Electric Co., Hattiesburg  
Graybar Electric Co., Jackson  
Gulf States Chemical Co., Inc., Hattiesburg  
Humble Oil Co., Houston, Texas  
Hunter-Sadler Co., Tupelo  
International Harvester Foundation, Chicago, Ill.

Jackson Packing Co., Jackson  
Johnston Furniture Co., Columbus  
Knox Glass Co., Jackson  
Massachusetts Mutual Life Insurance Co., Jackson  
Mississippi Bedding Co., Jackson  
Mississippi Chemical Corp., Yazoo City  
Mississippi Federated Cooperatives, Jackson  
Mississippi Power and Light Co., Jackson  
National Dairy Products Corp., Chicago, Ill.  
Parke Davis and Co., Detroit, Mich.  
Plantation Pipe Line Foundation, Atlanta, Georgia  
Proctor and Gamble Fund, Cincinnati, O.  
Time, Inc., New York, N. Y.  
Twentieth Century Fox Film Corp., New York, N. Y.  
Union Carbide and Carbon Corp., New York, N. Y.  
Union Producing Co., Shreveport, La.  
United Gas Line Co., Jackson  
U. S. Steel Foundation, New York, N. Y.  
Westbrook Manufacturing Co., Jackson

Business statesmanship at its best is to be seen when private business begins generously to support private colleges.

With the able leadership of Mr. C. W. Whitney, newly elected Director of the Mississippi Foundation, the future success of our efforts should be even more impressive.

# The 1958-59 BUDGET

## INCOME

	\$
Office & Store Bldg.	38,160
First Capitol Realty	12,900
Bond Int. & Div. on Stocks	23,980
Royalty Income	1,880
Int. on Mort. & Col. Notes	23,110
Faculty Homes & Apts.	8,000      \$108,030
Methodist Church	121,000
Undirected Contributions	10,000
Miss. Found. of Indep. Colleges	10,000
Alumni Gifts	15,000      \$156,000
Tuition	216,250
Tuition & Fees—Summer School	57,600
General College Fees	113,315
Biology Fees	3,000
Chemistry Fees	4,000
Geology Fees	3,000
Physics & Astronomy	2,500
Fine Arts Fees	11,200
Graduation Fees	2,400
Other Academic Fees	2,000      \$415,265
Room Rent	70,000
Room Rent—Summer School	3,900
Medical Fees	4,800
Auxiliary Enterprises	15,000
Post Office, Station A	1,200
University Center	5,000
Sales, Rentals, & Misc.	8,000      \$107,900
<b>TOTAL INCOME</b>	<b>\$787,195</b>

ENDOWMENT

DONATIONS &amp; GRANTS

EDUCATION

MISCELLANEOUS

## EXPENSES

Salaries*	\$ 91,750
Exec. Travel & Expense	3,300
Public Relations Travel	900
Public Relations Expense	9,000
Alumni Activities	3,000
Office Supplies & Expense	8,800
Auditing	1,750
Catalogs & Bulletins	6,000
Faculty Travel	2,900
Special Occasions	3,000
Decelle Lectureship	2,000
Medical Expense	4,840
Dormitory House Mothers	8,240      \$145,480
Salaries	\$269,570
Faculty Retirement (TIAA)	24,000
Social Security Tax	6,000
Employee Insurance Program	4,000
Retirement Salaries	3,500
Biology	6,000
Chemistry	4,000
Geology	3,000
Physics & Astronomy	3,500
Physical Education	10,380
Town & Country	1,200
Fine Arts Expense	3,000
Departmental Supplies & Exp.	4,000
Library Books	7,000
Library Expense	1,000
Student Assistants	10,400
High School Day & Other Scholarships	4,000
Endowed Scholarships	9,025
Pre-Theological Scholarships	21,250
Graduation Expense	2,400
Memberships & Dues	1,200
Summer School Salaries	34,565
Summer School Expenses	2,700      \$435,690
Insurance	\$ 10,000
Utilities	35,000
Buildings & Grounds	85,000
Contingency Fund	2,500
Student Union Loan	15,000
Library Loan	7,200
Music Hall Loan	5,000
Murrah Hall Loan	10,000
Dormitories Loan	35,000      \$204,700
<b>TOTAL EXPENSE</b>	<b>\$785,870</b>

ADMINISTRATION

INSTRUCTION

PLANT OPERATION &amp; MAINTENANCE

\*Dean and Registrar and Director of Religious Life also teach part-time.



This is an ambitious budget. It is not one dollar too ambitious either for our essential needs or for the resources of our constituency. It represents an appreciable increase in income which must come from the Church, from personal contributions, from business friends, and from alumni. We are pleased that the faculty and staff have received modest salary increases. Our salaries, even with the increase, are far from adequate. The average salary for our instructors next year is \$5,108, with no allowance for house payments or rents. The faculty is encouraged over the steady progress the College has made in the last several years. In order properly to compensate these valuable teachers and in order to assure competent instructors for the future, we must continue to realize progress in salaries.

## A Word of Conclusion

As I have prepared this annual report, I am more struck than ever with the responsibilities this College has been honored to receive. It occupies a crucial position. I am equally impressed with the enormous task ahead of us. Securing adequate finances to assure an adequate faculty is a substantial part of it. Securing and stimulating qualified students is another part of it—a most important part. Helping our friends and constituency to understand the role of a liberal arts college is still another vital part of our task.

The one part of the picture we have continually underscored is the College's dependence on the Church, on the com-

munity of Jackson, on alumni, on friends. This fact will never change. The other part of the picture we need also to underscore. The Church, the City of Jackson, the alumni, our friends—all depend upon what Millsaps College is permitted to do. We have a mutual dependence.

I have a growing feeling that we are in fact working together. Trustees, alumni, Millsaps College Associates, parents, citizens, churchmen, businessmen—all these add up to an impressive total. May God pity us and may our predecessors and successors, our forebearers and our descendants, forgive us if we fail to measure up.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "H. E. Finger, Jr."

H. E. FINGER, JR.  
President

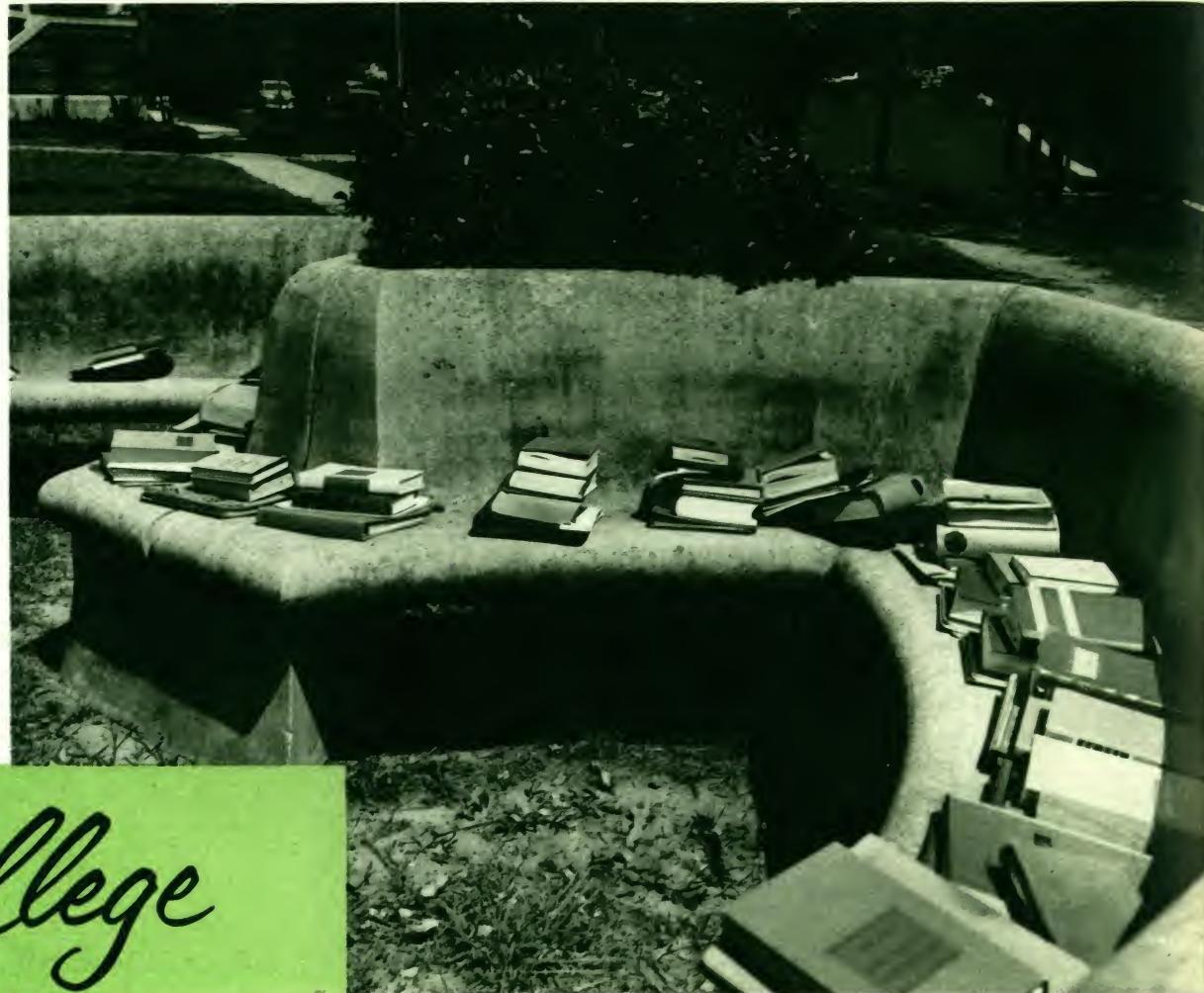
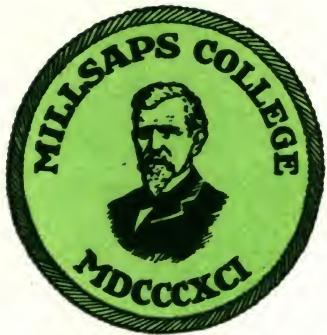
# *Memorial Gifts to Library*

## *Gift of*

MRS. CASPER W. AVERY  
MR. GILBERT H. COOK  
MR. & MRS. R. L. EZELLE  
MR. & MRS. R. L. EZELLE  
DR. JAMES S. FERGUSON  
DR. JAMES S. FERGUSON  
DR. JAMES S. FERGUSON  
DR. H. E. FINGER, JR.  
MR. & MRS. STANLEY R. HINDS  
MR. & MRS. STANLEY R. HINDS  
DR. J. MANNING HUDSON  
MR. & MRS. J. BLANN HOLLOWAY  
MU CHAPTER OF KAPPA DELTA  
THE J. N. MCLEOD FAMILY  
DR. C. M. MURRY  
MR. & MRS. J. F. REDUS  
MRS. ANNE B. SWEARINGEN  
MR. SHERWOOD W. WISE

## *In Memory of*

THE REV. J. J. BAIRD  
CURTIS MULLEN  
MR. & MRS. J. T. CALHOUN  
MRS. W. H. RATLIFF  
MRS. EVELYN H. CLARK  
DR. W. E. RIECKEN, SR.  
MRS. W. H. RATLIFF  
MR. ABE ARTZ  
MRS. EVELYN H. CLARK  
MR. I. C. ENOCHS  
DR. W. E. RIECKEN, SR.  
MRS. W. H. RATLIFF  
CURTIS MULLEN  
MRS. BESSIE W. LIPSCOMB  
DR. W. E. RIECKEN, SR.  
MR. ABE ARTZ  
MRS. W. H. RATLIFF  
MRS. W. H. RATLIFF



*Millsaps College*

1958 - 59

Please post this notice on your bulletin board immediately

-- Special --

MILLSAPS COLLEGE BULLETIN

Volume 43

NOVEMBER, 1958

No. 3

Published monthly during the college year by Millsaps College, Jackson, Miss. Entered as second class matter November 21, 1916, at the Post Office at Jackson, Miss., under the Act of Congress of August 24, 1912.

Please post this notice on your bulletin board immediately

# Millsaps College Invites You

to attend

## High School Day

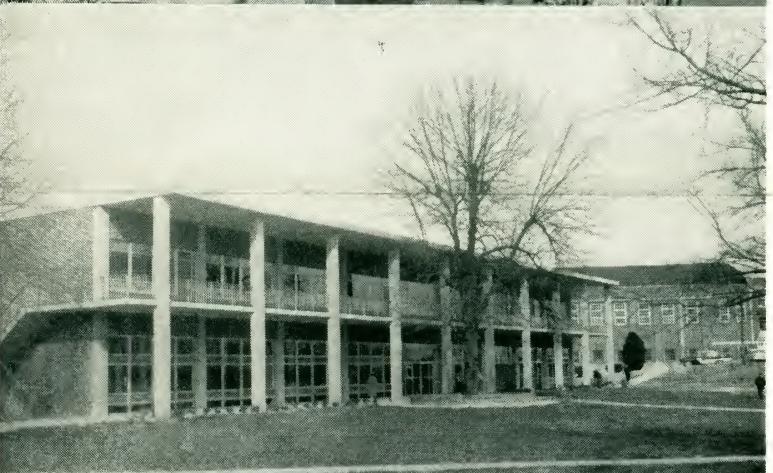
Registration begins at 8:00 A.M. — Saturday, November 22, 1963

### HERE ARE SOME HIGHLIGHTS

1



2



3



3



4

8:00 a.m.

Registration \_\_\_\_\_

Reception \_\_\_\_\_

Refreshments \_\_\_\_\_

Concert — Millsaps Band \_\_\_\_\_

Scholarship Tests (Optional) \_\_\_\_\_

Guided Tours Begin \_\_\_\_\_

Lunch \_\_\_\_\_

Conferences with Faculty and Staff \_\_\_\_\_

Variety Show \_\_\_\_\_

Visits to Houses of Social Groups \_\_\_\_\_

Party for Athletes \_\_\_\_\_

"Dutch" Supper \_\_\_\_\_

All-Campus Party \_\_\_\_\_

### Scholarship Awards

- Win one of **twenty** scholarships totaling \$2,350.00.
- Competitive scholarship tests on High School Day, November 22.
- First award for highest grade: \$300.00 scholarship.
- Second place award: \$200.00 scholarship.
- Third place award: \$150.00 scholarship.

For detailed information about these scholarships, write Dr. Frank Laney, Chairman of the Department of Education, Millsaps College, Jackson, Mississippi.

### About the Photographs

1. Four of the most exciting years of his life are ahead of the Millsaps College freshman as he arrives on the campus. He will find that the journey to maturity can be a pleasant one.
2. One of the first places to be visited by the student is the Union Building. This beautiful structure is the focal point of campus activities, housing the cafeteria, grill, bookstore, post office, lounges, meeting rooms, student offices, and a recreation room.
3. Consultation and registration are additional steps taken by the freshman in the process of becoming a full-fledged student. Millsaps' size is conducive to ideal faculty-student relationships.
4. The President's Reception is one of a series of events designed to introduce new students to campus life. They meet faculty members on a social basis, preparing the way for better understanding on both sides.
5. Freshmen must carry out the whims of upper-classmen on Freshman Day. It's hard to say which group enjoys the day more!
6. Skill and ingenuity are apparent in the floats prepared for the big Homecoming parade. Students learn to work together on projects planned to benefit the entire College community.

- **Fourteen** high school students will receive awards.
- **Three** scholarships will be given to outstanding students.
- Additional awards will be given to students.

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# Homecoming Day

Saturday, November 22, 1958

## Events of the Day

- Union Building
- Lounge, Union Building
- Recreation Room, Union Building
- Cafeteria, Union Building
- Cafeteria, Union Building
- Recreation Room, Union Building
- Cafeteria, Union Building
- Faculty Offices
- Christian Center Auditorium
- South Campus
- Buie Gymnasium
- Cafeteria, Union Building
- Union Building

## Awards

\$100.00 scholarships to seniors from schools outside the city of Jackson.

\$100.00 scholarships to seniors from high schools within the city of Jackson.

Final special scholarships to qualified stu-

ards Committee, Millsaps College, Jackson, Mississippi.

## Photographs

A student learns that membership in organizations, such as the band, enriches his life. Pullo, one of the state's most outstanding musicians, is director of the Millsaps band.

Millsaps an intramural sports program offers students opportunities for physical development. Inter-collegiate athletics are conducted on an amateur basis.

The best of the world's great plays are chosen for presentation by the Millsaps Players. Shown is a scene from "Teahouse of the August Moon."

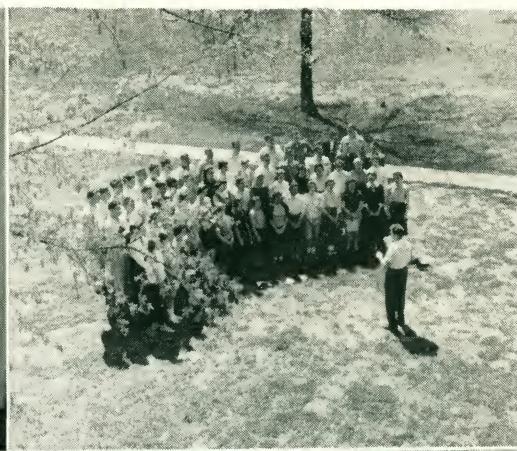
One of the nationally known Millsaps Singers is an annual event. Membership in Singers provides an opportunity for spiritual growth as well as deeper appreciation of good music.

A student soon learns that extra-curricular activities, vital as they are, are subordinate to the real purpose for attending college: learning. This student has come a long way since he first stepped through the gates of Millsaps. He's learned give and take, and now he's ready to prove his leadership.

The climax of the four-year period is reached at commencement. The student will soon take his place in a world which needs his vision and strength.



5



10



6



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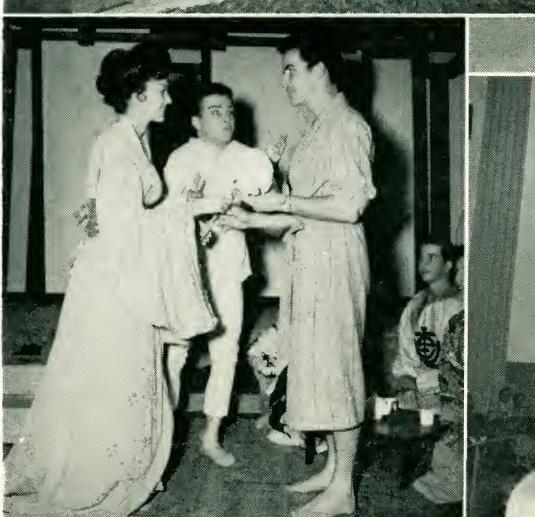
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13

*As An Institution of Higher Learning*

# Millsaps College



. . . Fosters an attitude of continuing intellectual awareness, of tolerance, and of unbiased inquiry . . .



. . . Attempts to search out aptitudes, capacities, and aspirations and to provide opportunities for development . . .



. . . Does not seek to indoctrinate, but to inform and inspire . . .



. . . Seeks to broaden horizons and to lift eyes and hearts toward the higher and nobler attributes of life.

The desired result is an intelligent, voluntary dedication to moral principles and a growing social consciousness that will guide the student into a rich, well-rounded Christian life, with ready acceptance of responsibility to neighbor, state, and church.

(Paraphrased from "The Purpose of Millsaps College")

*Science*  
at  
*Millsaps*

MILLSAPS COLLEGE  
BULLETIN

## *TABLE OF CONTENTS*

Foreword	4
The Science Faculty	6
Biology	7
Chemistry	11
Geology	15
Mathematics	19
Physics and Astronomy	23



## **MILLSAPS COLLEGE BULLETIN**

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**Volume 43**

**DECEMBER, 1958**

**Number 4**

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## FOREWORD

During the lifetime of the average inhabitant of the earth today more material changes have been wrought than in all previous recorded history. The very word "science" in this day conjures up visions of rockets to the moon, of white-robed medics producing unbelievable cures, of pushbutton living — and of devastating, fear-inspiring nuclear explosions with radioactive fall-out.

Millsaps College is proud of the contributions that its science division is making to the training of young scientists. Its graduates are to be found in substantial number in leading medical, graduate, and professional schools. Many are applying their scientific knowledge in industrial plants. In mathematics and the physical and biological sciences Millsaps students are acquiring the technical skills and insights that are needed for effective scientific careers.

In today's complex world, however, the scientist cannot be satisfied with simply a technical knowledge of his specialized field. The scientist is a citizen as well as a scientist, and his understanding of his world will determine the responsibility with which he uses his skills. In these days of decision regarding war and peace, freedom, and democracy Millsaps College seeks to give its science students a liberal arts education to provide a broad perspective. It hopes to develop scientists who will be concerned over the effects of nuclear power upon mankind. It also wishes to produce nonscience majors who through the study of science courses will develop a fuller understanding of the universe in which they live.

Scientists with intelligent curiosity sharpened by a college education stressing both a cultural and technical training are needed in government, commercial, medical, and private laboratories and experiment stations, as well as in professions requiring a scientific background. Chemical research alone subdivides into fields of paint, foods, dyes, rubber, ceramics, agriculture, pharmacy, textiles, medicine, explosives, crime detection, and many other categories. Other sciences offer equal opportunity for challenging careers.

The incoming student will find in the science division at Millsaps College well-equipped departments in biology, chemistry, geology, mathematics, psychology, and physics and astronomy. He will find encouragement in his work from well-trained professors who will be interested in him as an individual and who will seek to give him the best possible guidance toward a career in science.

James S. Ferguson, Dean



## THE SCIENCE FACULTY

GEORGE LOTT HARRELL (1911) Professor Emeritus of Physics and Astronomy  
B.S., M.S., D.Sc., Millsaps College; Advanced Graduate Work, University of Chicago

BENJAMIN ERNEST MITCHELL (1914) Professor Emeritus of Mathematics  
A.B., Scarritt-Morrisville College; A.M., Vanderbilt University;  
Ph.D., Columbia University

JOSEPH BAILEY PRICE (1930) Professor of Chemistry  
B.S., Millsaps College; M.S., University of Mississippi; Ph.D., Louisiana State University

CHARLES BETTS GALLOWAY (1939) Associate Professor of Physics  
B.S., Millsaps College; A.M., and Advanced Graduate Work, Duke University

RICHARD R. PRIDDY (1946) Professor of Geology  
B.S., in Ed., Ohio Northern University; A.M., Ph.D., Ohio State University

SAMUEL ROSCOE KNOX (1949) Assistant Professor of Mathematics  
A.B., A.M., University of Mississippi; Graduate Work, University of Michigan

THOMAS LEE REYNOLDS (1950) Professor of Mathematics  
B.S., Guilford College; A.M., Ph.D., University of North Carolina

ARNOLD A. RITCHIE (1952) Assistant Professor of Mathematics  
B.S., Northeastern State College of Oklahoma; M.S., Oklahoma A. & M. College;  
Advanced Graduate Work, Oklahoma A. & M., and the University of Tennessee

WENDELL B. JOHNSON (1954) Assistant Professor of Geology  
B.S., M.S., Kansas State College; Graduate Work, Missouri School of Mines

ROBERT PORTER WARD (1956) Assistant Professor of Biology  
B.S., A.M., George Peabody College for Teachers; Advanced Graduate Work,  
Michigan State University

CHARLES DONALD CAPLENOR (1957) Professor of Biology  
B.S., A.M., George Peabody College for Teachers; Ph.D., Vanderbilt University

ELMER DEAN CALLOWAY (1958) Associate Professor of Chemistry  
B.S., Millsaps College; M.S., and Ph.D., University of Alabama



## B I O L O G Y



## DEPARTMENT OF BIOLOGY

Dr. Donald Caplenor, Chairman

The Department of Biology at Millsaps is extremely proud of its history of service to students and devotion to the advancement of science. Much of the credit for the fine tradition of the department is due to the personal influence of the late Dr. W. E. Riecken, who was the active head of the department from 1934 until 1954. During this time, the department grew from a very small one into one with genuine prestige and scientific vigor. The development of the excellent premedical program at Millsaps was instituted as a goal of the Biology Department under the personal supervision of Dr. Riecken. That program alone has given impetus to scores of students who have since become successful medical technologists, dentists, doctors, and professional biologists.

It is not the aim of the present personnel of the Department of Biology to rest upon laurels won in the past, but rather, to continue to develop. The department wishes, above all, to have its students thoroughly trained in the fundamentals of biology. It also strives to have them familiar with modern technical equipment and capable of interpreting data in a scientific manner. For this reason, the Department of Biology possesses much modern optical and experimental equipment.

Each year laboratory and classroom materials and equipment are surveyed and improvements are made so that courses might keep pace with progress in the field.

In order to continue to build a program in accordance with present developments in science and in educational methods, the Department of Biology confesses the need for many things. Of these needs, the most pertinent is for more students with determination, ability, and scientific imagination. Even though the department has reason to be very proud of past and present students, it is hoped that it will be even prouder of those of the future.

### OPPORTUNITIES IN BIOLOGY

Present members of the Biology Department believe that the chief concern of any college student should be to continue a program of basic and liberal education. We think that it is most important that the student learn facts about himself and his environment, that he grow to appreciate those things which are generally considered to give meaning and purpose to life, and that he develop skills of communication and manipulation which will tend to make him a useful and articulate citizen. We believe that Millsaps is primarily dedicated to the principle of helping students to learn these things.

To most students, the choice of a vocation is a serious matter, and the choice of an institution in which to receive vocational and pre-vocational training is one which, in the end, is almost as serious as the choice of a vocation itself. At the present time there are many opportunities for well-trained persons in fields related to biology, such as bacteriology, basic research, dentistry, forestry, genetics, entomology, medical technology, medicine, oceanography, parasitology, pharmacology, scientific art, teaching, and wildlife management.

Millsaps College does not claim to train persons specifically and finally for any of these professions, but it does intend to give the finest fundamental training available. It has always been true that the person trained in basic science can readily adapt to fields of applied science, while the converse adaption is not usually so easy. It is fortunate that it is no longer difficult for a promising student in science to obtain financial aid for graduate work in a specialized field of science. Thus, one who is basically well-trained finds himself with almost unlimited resources for advancement and development in science and technology.

### RESEARCH

In order to attempt to lead toward insight into principles and techniques of biological research, the department has involved several students in projects which are research-like. Jacqueline Felder and Betty Hamilton have worked on **Agglutination Reactions in Typhoid Bacteria**, Douglas Lay and Robert House on the **Mammals of the Jackson Area**, Bobbie Jean Potts and Eileen Young on **Contamination of Well Water in Several Mississippi Counties**, Judith Forbes on **The Action of Bacteriophage T3**, John Long on demonstrating **Koch's Postulates**, Joe Rankin on **The Degree of Fecal Contamination of Seller's Creek**, James Poole on **The Isolation of Antibiotics from Actinomycetes**, Jean Roten, Dorothy Nash, and Harvey Sykes on **The Antibacterial Effects of Certain Deodorant Soaps**, and Rita Randall and Sherry Lancaster on **The Preparation and Administration of a Vaccine to Combat Typhoid in Mice**.

### PERSONNEL

Mr. Robert Porter Ward, of Michigan State University, is the zoologist of the staff. His training makes him especially proficient in the courses in embryology and comparative anatomy, the core of the biological portion of the premedical program. Mr. Ward is also capable in other fields of biology, and is especially eager to initiate his new courses in animal taxonomy.

Dr. Donald Caplenor, of Vanderbilt University, is the botanist and chairman of the department. His chief interests are in the courses of bacteriology, physiology, general botany, plant taxonomy, and in the service courses of the department.

Both members of the department are interested in carrying on long-range programs of research, Mr. Ward in the anatomy and distribution of the vertebrate animals and Dr. Caplenor in the taxonomy, distribution, and ecology of plants.

### BIOLOGY ALUMNI

A partial list of students who majored in biology is given below.

**George Wells Armstrong, III, '57**, is enrolled in the School of Pharmacy of the University of Mississippi.

**Mrs. C. T. Ashby (Onie Scott), '51**, is assistant director of Youth Center Activities, Great Neck, Long Island, and is nearing the Master of Education degree at Boston University.

**Mrs. Sam K. Baldwin (Kathleen Stanley), '43**, is an apprentice watchmaker in the jewelry store which she and her husband own in Ruston, Louisiana.

**Dr. Aden W. Barlow, Jr., '43**, is a physician and surgeon in Memphis, Tennessee.

**Robert E. Blount, Jr., '53**, has been in the U. S. Army. At the present time, he is a student in the Duke University School of Medicine.

**Lewis Ann Boackle, '54**, is a medical technologist at the University of Mississippi Medical Center. She is serving as editor of **Microscopic Reports**, which is the official publication of the Mississippi State Society of Medical Technologists. In June, 1957, she was a delegate of this society to the national meeting in Chicago.

**Mrs. Neal Calhoun (Mary Wharton), '47**, is a medical technologist in Madisonville, Kentucky.

**Jack B. Campbell, '57**, is attending the School of Medicine of the University of Mississippi.

**William Cliburn, '47**, teaches chemistry and physics in the Hattiesburg High School. He also teaches biology part-time at Mississippi Southern College and at Perkinston Junior College.

**Mrs. C. E. Davis (Berylyn Stuckey) '45**, is the wife of a minister and the mother of two children (ages 7 and 4) in Baldwyn, Mississippi.

**Hugh Long Davis, '57**, is teaching in the Mobile, Alabama, City Schools.

**Annie C. Dunn, '52**, is a medical technologist in the Department of Pathology, Charity Hospital, New Orleans, Louisiana.

**Marvin S. Dyess, Jr., '56**, is a technician in the Heart Disease Control Unit of the Mississippi State Board of Health.

**Mrs. Norman Ellis (Halla Jo Francis), '47**, is a medical technologist at Athens General Hospital, Athens, Georgia.

**Lacy Parker Frasier, '57**, is enrolled in the School of Medicine of the University of Arkansas.

**Dr. Randle E. Furr, '49**, is employed by the U. S. Department of Agriculture. He is engaged in research on cotton insects at the Delta Branch Experiment Station, Stoneville, Mississippi.

**Mrs. Robert C. Graves (Anne C. Finger), '55**, is teaching microbiology in the Flint Community College, Flint, Michigan. She received her M. S. degree from Northwestern University in 1956.

# CHEMISTRY

Mrs. Edgar Gossard (Sarah Dennis), '54, is a registered medical technologist in charge of the blood bank and the serology department of the Mid-State Baptist Hospital, Nashville, Tennessee.

Mrs. Thomas E. Hearon (Jane Stebbins), '48, trained in medical technology at Charity Hospital, New Orleans, Louisiana. She has worked as a general technologist in St. Louis in a private laboratory and in a hospital. She now lives in Madison, New Jersey, where she is a housewife and has two sons, aged seven and four.

Mrs. Martha Sue Hettchen (Martha Sue Montgomery), '53, has graduated from the Emory University School of Nursing in Atlanta, Georgia.

Dr. R. T. Hollingsworth, '47, is a general medical practitioner and surgeon at Shelby, Mississippi.

Richard R. Jost, '56, is an agent for the John Hancock Mutual Life Insurance Company, Jackson, Mississippi.

Dr. James G. Krestensen, '48, received his M. S. degree from the University of Mississippi and his M. D. degree from the University of Texas. He is now practicing medicine at Washington, Mississippi.

Mrs. Clayton E. Lawrence (Sue Rivers Horton), '52, is a housewife in Mobile, Alabama.

Charles L. McReynolds, '57, is a Revenue Officer of the U. S. Treasury Department in Jackson, Mississippi.

Dr. Robert F. Mantz, '48, is a dentist in Natchez, Mississippi.

Dr. Raymond S. Martin, Jr., '42, received his M. D. degree from Vanderbilt University. He is now surgeon in Jackson, Mississippi, with primary interest in pediatric and vascular surgery.

Mrs. H. N. Minnis, Jr. (Mary Emma Ervin), '43, is engaged in social work for the Mississippi Department of Public Welfare. She received her Master's degree from the Louisiana State University School of Social Welfare in 1958.

Dr. Nina Goss Moffitt, '46, received her M. D. degree from the Tulane University School of Medicine. She is now a pediatrician in Jackson, Mississippi.

William D. Montgomery, '50, is president of the Greenville Insurance Agency, Greenville, Mississippi. He is also engaged in tree and fruit farming.

Reverend Inman Moore, Jr., '47, received his B. D. degree from Emory University in 1949. He is now the minister of the Methodist Church at Wesson, Mississippi.

Edwin Reed Orr, III, '57, is attending the School of Medicine of the University of Mississippi.

Julian D. Prince, '49, is the principal of the high school at McComb, Mississippi.

Jesse O. Reed, Jr., '53, is a medical service representative for Ciba Pharmaceutical Products, Inc. He lives in Jackson, Mississippi.

Helen Walker Reilly, '57, is a Cancer Research Assistant under Dr. Thomas D. Norman of the Department of Pathology of the University Medical Center, Jackson, Mississippi.

James W. Ridgway, '50, is a medical service representative for Parke, Davis and Company. He resides in Memphis, Tennessee.

Dr. William E. Riecken, Jr., '52, is an aviation medical examiner on active duty with the Air Force. He is now at Scott AFB, Illinois. He plans to return to Mississippi to practice medicine after fulfilling his military obligation.

William E. Rowsey, '57, is working as a photographer in the Advertising Department of the M. R. S. Manufacturing Company, Flora, Mississippi.

Mrs. C. E. Salter, Jr. (Marjorie Burdick), '46, has been an active medical technologist and is now a housewife and mother of three girls in Pasadena, Texas.

Mrs. Louie C. Short (Frances Peacock), '54, is a physical therapist in Jackson, Mississippi.

Virginia Salter, '56, is a medical technologist, and is presently in the bacteriology laboratory of Dr. W. N. Bell of the University Medical Center.

Dr. B. H. Smith, '42, is a dentist in New Albany, Mississippi.

Mrs. M. L. Spiro (Daphne Ann Richardson), '57, has been an instructor at the Mississippi Baptist Hospital in Jackson, Mississippi. She is now living in Memphis, Tennessee.

Mrs. H. K. Strauss (Barbara Boswell), '43, was a medical technologist at Nashville Central Hospital. She is now a housewife and mother of five children in Jackson, Mississippi.

Mrs. John Warren Steen, Jr. (Dorothy Jean Lipham), '50, is a housewife in Milledgeville, Georgia, where she does some free lance work as a medical artist. She received an M. S. degree in medical illustration from the Medical College of Georgia in 1952.

Dr. Frederick E. Tatum, '43, is a physician in Hattiesburg, Mississippi, specializing in internal medicine.

Mrs. Joe W. Terry (Dorothy Murray), '56, is now a housewife and mother as well as an histologic technician in the Brantley Medical Laboratory. (She reported that the laboratory had prepared 8500 tissues in 1957, and had performed 130 autopsies.)

Mrs. Louis Thacker (Mary Cowan), '49, is a medical technologist and X-ray technician for medical clinic in Silsbee, Texas.

Nathan R. Walley, '56, is a sophomore at the University of Tennessee Dental School.

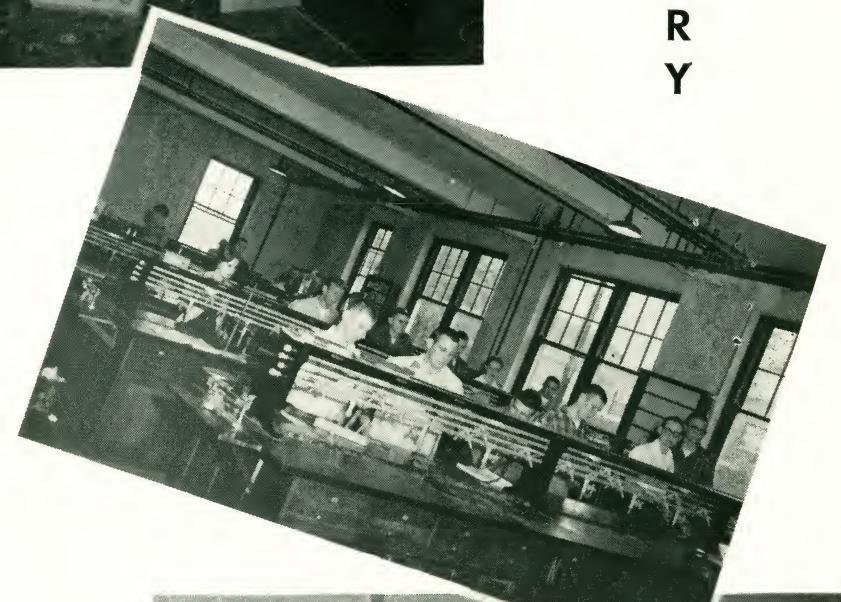
Thomas L. Wellborn, Jr., '56, has attended graduate school at Duke University and is now a graduate student at Mississippi Southern College.

Dr. Joe W. Wiggins, '46, is the director of the Warren County Health Department, Vicksburg, Mississippi.

Dr. J. L. Wofford, '43, is a pediatric surgeon in Jackson, Mississippi.

Dr. Charles N. Wright, '48, is a physician with general practice in Jackson, Mississippi.

Helen C. Young, '57, has completed her training as a medical technician in Mercy Hospital, Vicksburg, Mississippi, and is now in San Francisco, California.



# DEPARTMENT OF CHEMISTRY

Dr. J. B. Price, Chairman

The objectives of the Department of Chemistry are (1) to provide at least an introduction to the scientific method for nonscience majors; (2) to equip science majors with the proper background for professional and graduate study; and (3) to provide terminal training for those students who go into industry as technicians.

The Chemistry Department occupies all of the eastern half of the first two floors of Sullivan-Harrell Hall and a large stock room in the basement. A research laboratory in the basement devoted to the study of geochemistry is used jointly by the Chemistry and Geology Departments. The four chemistry laboratories contain a total of eighteen tables with space enough for 400 students. The department owns sixteen analytical balances, six of which have been recently purchased.

Students enrolled in classes in chemistry will find laboratories up to date in all respects. Permanent equipment in use includes exhaust hoods, operated by motors in the attic, to take away the dangerous and corrosive fumes; and stone-topped desks equipped with gas, water, compressed air, and alternating current outlets.

Special equipment used by advanced students include Perkin-Elmer Flame Photometer, photoelectric colorimeters, an electrically driven vacuum pump, a polarimeter, a refractometer, a polarograph, a line operated pH meter, a bomb calorimeter, and two high temperature muffle furnaces. The department has on loan a Beckmann Spectrophotometer. This instrument is used in a class designed to introduce senior students to methods of research before they enter graduate school or go to work in industry.

More than 20 students graduate each year with a major in chemistry. Of this number the majority go to medical school. Three or four enter graduate school, with an equal number going directly into industry. Among the companies now employing Millsaps' chemistry graduates are DuPont, Standard Oil, Ethyl Corporation, and Armstrong Cork.

## COURSES OF STUDY

A student's first chemistry course in college is general chemistry. In this course the student gains a general knowledge of the entire field of chemistry and at the same time lays the foundation of fundamental principles on which all chemical developments are based. A good high school background in arithmetic and algebra is helpful for the understanding of the many mathematical relations existing in chemistry as well as in the other natural sciences.

In the sophomore year the student takes courses in qualitative and quantitative analysis, in which he learns how to determine the chemical makeup of various materials. Organic chemistry, the study of the vast field of carbon-containing compounds, is usually taken in the junior year.

In his senior year the premedical or predental student takes the course in premedical physical chemistry. This is a fairly non-mathematical treatment of an interesting field of chemistry which explains the how and why of many important chemical phenomena. If the student plans to go into work in the chemical industry or do advanced study in graduate school, however, he takes a more rigorous course in physical chemistry which requires a working knowledge of calculus.

In addition to physical chemistry, most chemistry majors take the course in organic qualitative analysis during their senior year. Also, a selected number of students are allowed to undertake simple research under the direction of the two chemistry professors. This work introduces them to the use of chemical literature. A non-laboratory course

in inorganic chemistry is offered to students who have completed general chemistry. In this course a study is made of the relationships existing between atomic structure and physical and chemical properties of the elements. In addition, the special topics of radioactivity and atomic power are discussed. This course has become a very popular elective.

## FACULTY

Dr. J. B. Price, a 1926 graduate of Millsaps College who received his Ph.D. degree from Louisiana State University, is chairman of the Chemistry Department. Dr. Price teaches courses in general chemistry, organic chemistry and supervises several students in their special problems work. In addition to his regular course work, he is chairman of the advisory committee for premedical students, faculty adviser of the local chapter of Alpha Epsilon Delta, premedical honor society, and vice president of the national organization. He has served as state Science Fair chairman and is president-elect of the Mississippi Academy of Science.

Dr. F. W. James, who joined the faculty in 1950, has resigned to enter the field of industrial research. His successor is Dr. Elmer Dean Calloway, a 1948 graduate of Millsaps College, who teaches courses in analytical and physical chemistry. Dr. Calloway received his doctorate from the University of Alabama and has taught chemistry at Delta State College and Birmingham Southern College.

There are presently five student laboratory assistants and one office secretary in the department.

Since the last Science Bulletin the College community has been saddened by the passing of Dr. J. M. Sullivan, emeritus professor of chemistry and geology. Dr. Sullivan died on February 5, 1957. He had been a member of the Millsaps College faculty since 1902 and had served as chairman of the departments of chemistry and geology.

## CHEMISTRY ALUMNI

Among the Millsaps College alumni teaching chemistry at this time are:

**O. D. Bonner**, '39, Ph.D. Kansas, member of the department at University of South Carolina.

**William S. Bryan**, '51, M.S. University of Alabama, professor of chemistry at Southwest Junior College.

**M. L. Burks**, '25, M.S. University of Mississippi, dean of Northwest Junior College.

**Frank Cross**, '24, M.S. Emory, professor of chemistry at Perkinson Junior College.

**Roy Epperson**, '54, M.S. University of North Carolina, member of the staff of Elon College.

**K. P. Faust**, '40, 3 years in Tennessee Medical School and graduate work at University of Mississippi, professor chemistry at Perkinson Junior College.

**Henry Lutrick**, '48, M.S. University of Mississippi and advanced graduate work at Michigan State University, professor of chemistry at Delta State College.

**John C. Sims**, '27, Ph.D. Western Reserve University, head of the department at North Georgia State College.

Among the graduates in industrial research are:

**Leslie Addison**, '41, Ph.D. Purdue, Esso Laboratories.

**Mitchell Baird**, '51, Ethyl Gas Corporation.

**Dick Patterson**, '50, Armstrong Cork Company.

**Franz Posey**, '51, Ph.D. University of Chicago, Union Carbide Nuclear Company.

**Paul Scott**, '42, Ph.D. Vanderbilt, DuPont.

**Prentiss Scott**, '42, Pontiac Eastern Refinery.

**Grady Tarbutton**, '28, Ph.D. Duke, Tennessee Valley Authority.

Other chemistry majors and their activities are as follows:

**Martin H. Baker**, '49, practicing dentistry in Hattiesburg, Mississippi.

**Charles T. Bishop, Jr.**, '50, employed by Schering Corporation in Bloomfield, New Jersey.

**Benjamin E. Box**, '57, a first year medical student at the University Medical Center in Jackson, Mississippi.

**Jesse W. Brasher**, '56, employed by DuPont in their Savannah River plant.

**Gordon L. Carr**, '49, a civilian chemist doing Army research.

**Mrs. James J. Chephey (Elaine Boothe)**, '56, employed by DuPont Company.

**Oscar Weir Conner, III**, '49, practicing pediatrics in Jackson, Mississippi.

**Clyde X. Copeland**, '56, in his third year as a Tulane medical student.

**W. W. Correll**, '49, director of the laboratory at the Veterans Administration Center in Jackson, Mississippi.

**Reginald E. Daughdrill, Jr.**, '50, a chemist and geologist with Shell Oil Company.

**Harry W. Dowling**, '56, a graduate student in the LSU Department of Chemistry.

**Dr. John L. Egger, Jr.**, '49, a surgical resident at Charity Hospital in New Orleans, Louisiana.

**Mrs. J. N. Ellis (Betty Garber)**, '50, homemaking for her family in Lafayette, Louisiana.

**John H. Evans**, '56, an oil explorationist with Humble Oil Refining Company.

**Kenneth L. Farmer**, '49, an industrial engineer with Universal Atlas Cement Company, just out of Birmingham, Alabama.

**Richard C. Fleming**, '56, in his second year of medical school at the University Medical Center in Jackson, Mississippi.

**Park L. Gerdine**, '50, practicing medicine in Quitman, Georgia.

**John M. Giordana**, '50, a medical intern at Mobile County Hospital.

**Robert M. Graham**, '50, a resident at Charity Hospital, New Orleans.

**Edwin L. Gullede, Jr.**, '49, a technical service representative with Reichhold Chemical, Inc.

**Frank G. Hardage**, '49, a professional service representative with McNeil Laboratories, Inc.

**Thomas L. Hardee, Jr.**, '56, a second year medical student at Tulane.

**Garland C. Harrison**, '56, completing his military obligation.

**Shin Hayao**, '49, employed by the Miles-Ames Research Laboratory.

**Dawan E. Heap**, '50, a pilot plant operator on a special project for Procter and Gamble.

**Richard E. Johnson**, '56, a second year medical student at the University Medical Center in Jackson, Mississippi.

**Hugh Johnston**, '57, a second year medical student at the University Medical Center in Jackson, Mississippi.

**Robert C. Kelley, Jr.**, '52, a chemist at the Army Chemical Center.

**Robert Koch**, '56, a chemist for a paper mill in Bogalusa, Louisiana.

**George D. Lee**, '49, employed by Research Laboratories of Swift and Company in Chicago, Illinois.

**Earl T. Lewis**, '50, practicing medicine at Mendenhall, Mississippi.

**Charles Foster Lowe**, '57, a second year medical student at the University Medical Center in Jackson, Mississippi.

**Mrs. R. W. Lowe (Jerry Mayo)**, '49, employed by the School of Aviation Medicine.

**Wofford H. Merrell, Jr.**, '57, a second year medical student at Tulane.

**Noel L. Mills, Jr.**, '57, a first year medical student at Tulane.

**James S. Minnis, Jr.**, '50, engaged in home missionary work for the Baptist Church in Utah.

**John D. Morgan**, '57, a first year medical student at Washington University.

**Turner T. Morgan**, '49, practicing dentistry in Jackson, Mississippi.

**Roy A. Parker**, '55, a graduate teaching assistant in the department of physics at LSU and is a candidate for the Ph.D. degree.

**Hiram Polk**, '56, a first year student at Harvard Medical School.

**David E. Pryor**, '55, a chemist with the Coca-Cola Company.

**Jeanette Pullen**, '56, a first year medical student at Tulane.

**Leslie W. Shelton**, '57, a first year student at the Medical Center in Jackson, Mississippi.

**James W. Simmons, Jr.**, '54, a graduate student in the department of chemistry at the University of Mississippi.

**Melvyn E. Stern**, '56, a first year student at the University Medical Center in Jackson, Mississippi.

**Mrs. Deck Stone (Sandra Campbell)**, '52, homemaking for her family.

**Cleveland Turner, Jr.**, '52, a fellow in general surgery at Ochsner Foundation Hospital in New Orleans.

**Bryson L. Walters**, '50, teaching chemistry and physics at Ellissville Junior College.

**William Lamar Weems**, '53, with the United State Air Force.

**Robert Ben Wesley**, '56, a student at Emory University in the School of Theology.

**Dayton E. Whites**, '56, a second year medical student at the University Medical Center in Jackson, Mississippi.

**Paul A. Wiggins**, '54, a chemist for National Distillers Products Corporation.

**Robert J. Yohannan**, '50, employed by Southern Pacific Company.



## GEOLOGY



# DEPARTMENT OF GEOLOGY

Dr. R. R. Priddy, Chairman

The Department of Geology has recorded a phenomenal growth within recent years. At this writing forty students plan to major in geology, and the department has a two-man faculty.

The department gained in numbers but lost Dr. J. M. Sullivan. He died February 5, 1957, in his 93rd year. An hour before the stroke from which he never recovered, he talked with Dr. Priddy regarding the restoration of the Millsaps Museum, one of the many projects in which he was so actively interested. Now some of those choice specimens which he collected over a period of fifty years for the Millsaps Geology Department are displayed in cases in the basement of Sullivan-Harrell Hall. Another set of unusual materials is being processed for the Mississippi Department of Archives Museum. The remaining rocks, minerals, and fossils have been purchased from the Sullivan estate and are now part of the department's working materials.

Wendell B. Johnson is now a member of the teaching staff of the department. He came in July, 1954, and served part-time until September, 1957, when he was made a full member of the faculty and assistant professor. Mr. Johnson teaches two introductory courses each semester and handles the mineralogy, economic geology, petrology, petrography, and field methods.

Dr. Richard R. Priddy, chairman of the department, teaches several introductory courses such as physiography, structural geology, geology of Mississippi, and petroleum geology.

## COURSES OF STUDY

The courses offered in the Millsaps Geology Department are listed below. The numbers are the course designations in the catalog. Those in column 1 are the eight required courses of three semester hours each. The elective courses are listed in column 2. A list of the required supporting courses in science and mathematics is given in column 3.

11 Physical	22 Economic Geol.	Physics 11A and 12A
12 Historical	42 Petroleum Geol.	Another Physics Course
21 Mineralogy	52 Vertebrate Paleo.	Chemistry 21 and 22
31 Geology of Miss.	61 Special Problems	Chemistry 41 or 71
32 Structural Geol.	62 Special Problems	Biology 21A and 12
41 Physiography	71 Field Geology	Math 11 and 12
51 Paleontology	82 Petrography	Another Math Course
92 Lithology	91 Sed. Petrology	
	101 Engineering Geol.	
	110 G. Marine Geol.	
	112 Sedimentation	

The field geology course is for summer work in the camps of other colleges, in the Appalachians, or out west. The marine geology and sedimentation is for summer work at Gulf Coast Research Laboratory, Ocean Springs, Mississippi, where Millsaps biologists, chemists and geologists have been in research for eight years.

The department facilities have been enlarged and improved. There are now two lecture-laboratory rooms. This arrangement makes it possible for Mr. Johnson and Dr. Priddy to hold laboratories or lectures simultaneously. Work materials have been obtained to match these new demands. The department is continuously buying or trading for more rocks, minerals, and fossils. An 8-inch diamond saw and a smaller diamond trim saw are used in preparing cut specimens. Several of the part-time laboratory assistants cut, sort, and label these work materials. A lap wheel helps prepare thin sections for study under our six petrographic microscopes.

## RESEARCH

The department scored a "first" when Mr. Johnson and an optical technician succeeded in projecting the image of thin sectional minerals on a screen. This was accomplished by passing the beam of an electronically controlled carbon arc through the mineral, into a polarizing scope, and then through a right angle prism onto the screen. The device is figured and described in the spring, 1956, issue of **Focus**, the Bausch and Lomb trade magazine.

Other "firsts" in research are anticipated soon. The old **Methodist Advocate** room in Sullivan-Harrell Hall is now a geochemistry laboratory where advanced geology and chemistry majors are making physical and chemical analyses of Gulf Coast sediments. Devices for collecting the "muds" were devised by Dr. Priddy and R. M. Crisler (1952). The methods were pictured and described in the October 20, 1957, Roto Magazine section of the **New Orleans Times-Picayune**. The chief interest is a hitherto undescribed "floc," a nutritious, feathery suspension just above the ocean bottoms.

Eighteen papers have originated in the Millsaps Geology Department within recent years. Nine have been published in the **Mississippi Academy of Science Journal** and several are awaiting publication.

The January, 1958, issue of **Major Notes**, the Millsaps College alumni magazine, carries a story on the academic aspects of Mississippi's oil industry. In it is a discussion of Millsaps' contribution to professional geology — 48 petroleum geologists, 18 geophysicists, and four consulting geologists. The industry has helped the Millsaps Geology Department by providing three to five special students per year, by providing part-time work for three to eight advanced majors, and by furnishing a file of over 3000 electric log surveys of Mississippi oil tests. Each year several Millsaps graduates go directly into the industry, but it is advised that all graduates work toward a Masters degree before applying to the oil industry, or before doing other geological work. Consequently, a high percentage of the school's geology majors enter graduate school. Because of their preparation many receive graduate assistantships or scholarships.

About one-sixth of the geology majors are in other geological fields. In recent years geology alumni have been employed by the Mississippi River Commission, the U. S. G. S. Groundwater Survey, and state geological surveys.

## GEOLOGY ALUMNI

Below is a partial listing of Millsaps Geology Department graduates, their connections, and their addresses.

**Hugh Richard Baker**, '52, MS Louisiana State 1954, is a geologist with Humble Oil Company in Tallahassee, Florida.

**Charles A. Barton**, '49, MS University of Illinois 1951, is a geologist with Skelly Oil Company in Jackson, Mississippi.

**Jack R. Birchum**, '54, MS Mississippi State 1955, is a geologist with Pan American Petroleum Corporation in Corpus Christi, Texas.

**George R. Burchfield**, '48, MS Mississippi State 1950, is a geologist with Gulf Oil Corporation in Shreveport, Louisiana.

**Ann Elizabeth Butler**, '55, MS Louisiana State 1957, is a paleontologist with Louisiana State Geological Survey in Baton Rouge, Louisiana.

**Joseph W. Cagle**, '47, MS University of Tennessee 1948, is a geologist with the U. S. Geological Survey, Groundwater Division, in Brewton, Alabama.

**James A. Callahan**, '57, is a geologist with the U. S. Geological Survey, Groundwater Division, in Jackson, Mississippi.

**Stephen E. Collins**, '55, MS University of Tennessee 1957, is a geologist with Pan American Petroleum Corporation in Tyler, Texas.

**Jack E. Cooper**, '54, MA Ohio State University 1957, is a geochemist with Carter Oil Company Research Laboratories in Tulsa, Oklahoma.

**Robert M. Crisler**, '52, MS Emory University 1954, is a geologist with the U. S. Soil Conservation Service in Auburn, Alabama.

**Robert H. DeKay, Jr.**, '48, is a consulting geologist in New Orleans, Louisiana.

**B. Z. Ellis**, '58, is a graduate student at Mississippi State University.

**Frank G. Fowler**, '49, is party chief with General Geophysical Company in New Orleans, Louisiana.

**Richard D. Foxworth**, '56, MA University of Missouri 1958, is employed by the Texas Company in Tyler, Texas.

**Joseph C. Franklin**, '57, is a geology trainee with Gulf Oil Corporation in Houston, Texas.

**John W. Green**, '57, is laboratory assistant at Mississippi State University.

**G. W. B. Hall, Jr.**, '51, MA Southern Methodist University, is a geologist with Mene Grande Oil Company in Barcelona, Anyoatequi, Venezuela.

**Floyd E. Heard**, '49, is an exploration geologist with Continental Oil Company in Fort Worth, Texas.

**George Lewis Hunt**, '55, MS Mississippi State 1957, is a geologist with the National Phosphate Company in Lakeland, Florida.

**Floyd N. Jones**, '57, is attending graduate school at the University of Missouri. He plans to teach geology.

**Marshall Keith Kern**, '51, is a geologist with Pan American Petroleum Corporation in Bismarck, North Dakota.

**Michael L. Kidda**, '49, MA University of Illinois 1951, is district geologist with Murphy Corporation in Shreveport, Louisiana.

**Harry M. Luke**, '51, is a geological scout with Atlantic Refining Company in New Orleans, Louisiana.

**Wilbur Luke**, '53, is a petrographer with the Mississippi River Commission in Clinton, Mississippi.

**Hollis H. McBride**, '51, is a geologist with the Mississippi Federal Roads projects in Jackson, Mississippi.

**Robert E. Martin**, '54, MS Mississippi State 1955, is a geologist with Gulf Oil Corporation in Laurel, Mississippi.

**William H. Moore**, '53, MA Emory University 1954, is a geologist with Shell Oil Company in Jackson, Mississippi.

**Dale Owen Overmyer**, '52, MA Southern Methodist University 1953, is area geologist with Mene Grande Oil Company in Barcelona, Anyoatequi, Venezuela.

**William S. Parks**, '54, MA Mississippi State 1957, is assistant state geologist at University, Mississippi.

**James G. Perkins**, '50, MS University of Houston 1952, is a geologist with The Texas Company in Jackson, Mississippi.

**John C. Philly**, '57, is a graduate assistant at the University of Tennessee.

**William F. Powell**, '56, has a research doctoral fellowship at Rice Institute of Technology in Houston, Texas.

**James A. Smith**, '50, MA Mississippi State 1952, is district geologist with Humble Oil and Refining Company in New Orleans, Louisiana.

**R. L. Thrash**, '50, is a party chief with General Geophysical Corporation in Houston, Texas.

**Walter R. Turner**, '50, is a geologist with Pan American Petroleum Corporation in Shreveport, Louisiana.

**A. F. Whatley**, '49, MS Mississippi State 1950, is a geologist with Gulf Oil Corporation in Jackson, Mississippi.

**T. H. Williams**, '50, is a party chief with Republic Exploration Company in Midland, Texas.

**Harry K. Woods**, '54, is a geologist with the Mississippi River Commission in Vicksburg, Mississippi.



## MATHEMATICS

## DEPARTMENT OF MATHEMATICS

Dr. T. L. Reynolds, Chairman

The Department of Mathematics is now composed of three men — Dr. T. L. Reynolds, chairman, and Professors S. R. Knox and Arnold Ritchie. The number of students taking mathematics courses has grown constantly in the past five years, as is evidenced by the fact that plane analytic geometry has two sections and the class in differential calculus has had 18 to 20 students, with a considerable number of premeds continuing through the integral calculus. There were 43 math majors in the department last year, with twelve taking their comprehensives. The senior majors are about evenly divided between men and women, with the latter mostly training for the teaching profession.

Any of our majors, when asked about their high school training, will tell you they really feel the need for having more science and mathematics at the high school level. In fact, anyone planning to go into any science field should take at least two years of algebra and one year of geometry while in high school, and an additional year of solid geometry and trigonometry whenever it is possible to do so. Students enrolling with this kind of training are well prepared for the freshman courses in algebra and trigonometry.

Anyone desiring to continue in mathematics through a major will be taking most of the following courses:

Math 11 — College Algebra	Math 41 — Advanced Topics in Integral Calculus
Math 12 — Trigonometry	Math 81 — Differential Equations
Math 21 — Plane Analytic Geometry	Math 82 — Theory of Equations
Math 22 — Solid Analytic Geometry	Math 92 — Modern Algebra
Math 31 — Differential Calculus	Math 61 — College Geometry
Math 32 — Integral Calculus	Math 72 — Theory of Statistics
	Math 101 — Synthetic Projective Geometry

Mathematics majors are required to take the first 18 hours through Math 32 and an additional 9 hours, with another course strongly advised. Most of our majors get at least 30 hours of math before graduation. This program prepares the student for many different fields of endeavor, including graduate school, teaching, actuarial work, and industrial work.

### PRE-ENGINEERING

The pre-engineering program offers many opportunities for the student interested in engineering. At present we have arrangements with three engineering schools — Columbia University, the University of Mississippi, and Vanderbilt University — by which a student may attend Millsaps for three years for a total of 110 hours or more and then continue his work at either of the schools named above, transferring back 18 hours or less for a Bachelor of Science degree at Millsaps at the end of the fourth year. At the end of the fifth year in the engineering school he will receive his engineering degree.

At the beginning of his freshman year, any student interested in engineering has the opportunity to take a pre-engineering ability test which is used in advising him on his future possibilities in the profession. For the most part, a student may enter or leave the pre-engineering program in his freshman year without any loss of momentum in his course of study.

Included in the 110 hours of pre-engineering at Millsaps is an excellent liberal arts curriculum covering all of the divisions of study and, at the same time, fulfilling all the requirements for graduation at Millsaps. Any student in this program will get a comprehensive look at the entire science field in his first two years and thus will have an opportunity to choose from several branches of engineering.

### ADVICE FROM AN ALUMNUS

Tommy Naylor, of Jackson, is one of the 3-2 plan students who entered Columbia University in New York City and who received his Bachelor of Science degree in mathematics from Millsaps. Below is a letter written by Mr. Naylor, at the request of the mathematics department, which gives his reaction to the pre-engineering program.

To Millsaps College:

As the first Millsaps College representative to enter Columbia University on the combined plan for engineers, I would like to present to you my impressions of Millsaps College and Columbia University. It is my opinion that this combination of liberal arts and technology can not be surpassed by any other similar system in our country.

While attending Millsaps College I received the many benefits which this fine liberal arts school has to offer the pre-engineer. These benefits include excellent training in the field of mathematics and its closely-related engineering courses, superb guidance in preparing for the highly technical courses which will come in the immediate future, economics studies which prepare the future engineer for the broad field of management, and a background in liberal arts which makes one an engineer rather than just a technologist. I feel that Millsaps College has made a tremendous contribution to my life both as an engineer and as a member of society.

Upon completion of my three years at Millsaps, I then entered the Columbia University School of Industrial Engineering. There I found myself in the midst of the very heart of industry in the world. There I found professors of engineering who were actually consultants for the major industries in this area and who gave me first hand accounts of their industrial experiences.

Included in the various engineering courses were actual plant visits where one can see what really goes on in industry and not just what the text book says about it. This you can find only in New York and, in particular, at Columbia University. Not to be overlooked are the many cultural opportunities which life in New York has to offer, such as plays, musicals, operas, and many other similar events. Thus I find that life in New York City fits perfectly into the plans of the engineer who desires a liberal education.

It is my hope, in this day when the urgency for men with an engineering background is being stressed so very much by our federal government, that many high school seniors considering engineering will look to Millsaps College and the combined plan for engineering. I further hope that they will consider the importance of having trained engineers for the purpose of bringing industry to Mississippi. Once again I say, a liberal education is a must in order to become an engineer, rather than a technologist.

Sincerely,  
Tommy Naylor

## MATHEMATICS ALUMNI

Below is a partial list of recent Millsaps College alumni who have majored in mathematics.

**Mrs. Harry Allen (Betty Gray), '53,** is a housewife and mother of one daughter, Julie, in Bossier City, Louisiana.

**Joseph Conti, '56,** is a supervisor of the Actuarial Division of Pan-American Life Insurance Company in New Orleans, Louisiana.

**Minnie Farlow, '54,** is a computer in the geophysical section of Shell Oil Company in Jackson, Mississippi.

**John M. Flowers, '51,** is with Gulf Life Insurance Company in Jackson, Mississippi.

**Stewart Gammill, III, '57,** is in graduate school and is a graduate assistant at the University of Mississippi.

**Doug Hammond, '51,** operates his own retail men's and boy's clothing store in Corinth, Mississippi.

**Mrs. Joseph Huggins (Barbara Walker), '54,** is a housewife and mother in Valparaiso, Florida.

**Mrs. James Inkster (Lucy Price), '57,** worked as a draftsman with Continental Oil Company in Jackson prior to her marriage. She is now serving as a secretary in Starkville, Mississippi.

**Albert Lee, '54,** received a BSEE degree from Mississippi State in 1956 and is now an engineer with Florida Power and Light Company in Fort Lauderdale, Florida.

**Tommy Naylor, Jr., '58,** has completed his first year in engineering at Columbia University.

**Mary George Price, '55,** is a mathematician with the Naval Air Testing Center in Patuxent River, Maryland.

**Robert C. Smith, '57,** is a consultant civil engineering computer for Engineering Service in Jackson, Mississippi.

**Earl Staires, '56,** is a draftsman for Howell Steel Company in Jackson, Mississippi.

**John Stringer, '55,** is in dental school at the University of Tennessee.

**Nancy Vines, '54-'56,** is with Temco Aircraft in Dallas, Texas, as a junior engineer.

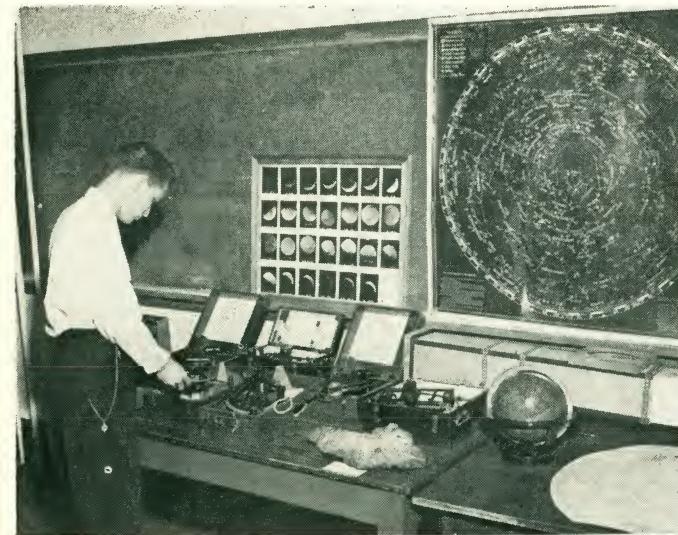
**Peyton Weems, '51,** is doing seismic work with Delta Exploration Company, Inc. in Turkey.

**Spencer Weissinger, '52,** is a party chief with Geophysical Service, Incorporated, in East Pakistan.

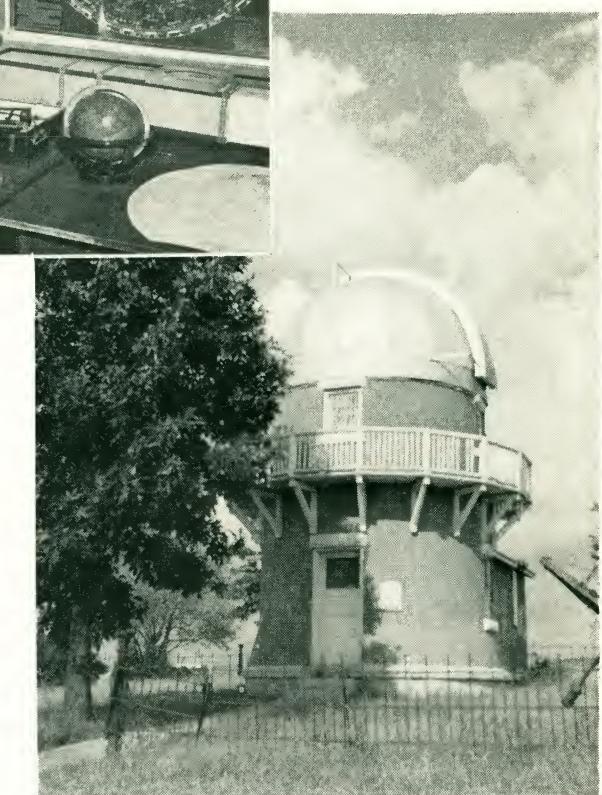
**Shelly White, '55,** is the purchasing and contracting officer for the United States Property and Fiscal Office in Jackson, Mississippi.

**Glenn Wimbish, '57,** was in graduate school and was a graduate assistant at the University of Mississippi. He is now a professor of mathematics at Louisiana College in Pineville, Louisiana.

**Mrs. Tommy Woodard (Frances Moore), '55,** is a homemaker, mother, and minister's wife in Doddsville, Mississippi.



## PHYSICS AND ASTRONOMY



## DEPARTMENT OF PHYSICS AND ASTRONOMY

Professor Charles Galloway, Chairman

The Department of Physics and Astronomy is located in Sullivan-Harrell Science Hall. The total floor space of the ten rooms comprising the department is approximately 7,000 square feet.

Professor Charles B. Galloway, who received his Bachelor of Science degree from Millsaps College and his Master of Arts degree from Duke University, is chairman of the Department of Physics.

On the main floor in the west wing of the Science Hall is located the office, private laboratory, lecture room, general physics laboratory, and optics laboratory.

Although the physics and astronomy lecture room has a seating capacity of eighty, the classes are held to a maximum of about twenty-five or thirty students. Equipment in this room includes various wall charts, an RCA Dynamic Demonstrator showing a typical radio receiver with all of the parts and wiring visible, and projection equipment for 16 millimeter sound film as well as for slides and slidefilm.

Across the hall from the large lecture room is the laboratory used for general physics and premedical courses. This laboratory accommodates forty students at ten large laboratory tables. Gas, water, and both alternating and direct currents are available when needed. Equipment includes apparatus for performing experiments in mechanics, heat, sound, magnetism, electricity, and light.

Adjoining the general physics laboratory is the laboratory used for advanced work in optics. A Cenco Grating Spectograph, complete with arc power supply and micrometer measuring microscopic equipment, is available for analytic work in spectroscopy. Two spectroscopes, two spectrometers, a polarimeter, ultra violet light equipment, sodium vapor light, and mercury vapor sources are available for advanced optical work.

A photographic darkroom is available. This room is equipped with tanks for the development of both roll film and cut film, three standard enlargers, one standard oversize printing machine, and an electrically heated dryer.

In the basement are three rooms devoted to the study of mechanics, heat, electricity, and modern physics. Equipment in these rooms includes apparatus designed for the study of the fuel values of various solid, liquid, and gaseous fuels. Electrical measuring equipment consists of an adequate supply of voltmeters, ammeters and galvanometers, both of the reflecting, portable type. Wheatstone bridges, potentiometers, resistance and capacitance bridges are provided for precise electrical measurements. In the study of vacuum tubes and the fundamentals of radio receiving and transmitting equipment, typical circuits have been arranged on plywood boards showing in detail the various components used in radio communicating. Four oscilloscopes and an electronic switch can be used to study complex electrical waveforms. For the study of modern physics, two geiger counters, complete with scaling and counting devices, are available. During the summer, an analytical balance, an overhead projector, and darkroom equipment were added.

One of the basement rooms contains two large concrete piers which are not attached to the building in any way. These large concrete blocks are placed eight to ten feet into the ground. It is on these platforms that some of the very sensitive equipment must be mounted in order to avoid the vibrations encountered in the building. A small storage room completes the space allotted to the department.

### THE JAMES OBSERVATORY

Occupying a commanding position on the northwestern corner of the Millsaps College Campus is the James Observatory. The Observatory was built about fifty years ago and was given to the college by Mr. Peter James in memory of his son, Dan James.

Housed in the Observatory is a telescope of the refracting type which was built by the Warner and Swazey Company with optical parts by Brashear. The lens of the telescope is six inches in diameter and has a focal length of ninety inches. Using the several eye pieces which are available, magnifying powers of 48, 96, and 350 may be obtained. Mounted on the main telescope is a camera which is used for photographing the celestial objects. The camera lens was presented to the College by the Class of 1914.

In 1930 a prismatic transit instrument built by the Gaertner Scientific Company especially for the James Observatory was added to the equipment already available.

Other equipment at the Observatory consists of a siderial chronometer, radio receiver and recorder for reception of standard time signals directly from the Bureau of Standards in Washington, and a small motor-driven planetarium.

Each year several thousand persons visit the Observatory.

### COURSES OFFERED

The course in general physics is concerned largely with fundamental facts, laws, and theories. This course serves as a terminal course for those students taking only one year of the subject and also lays an adequate foundation for subsequent work in the department. The courses following the elementary course deal with the various divisions of physics and are arranged to meet the needs of those planning to major in the field of physics, those majoring in related fields such as chemistry, geology, or biology, and those planning to enter medical, dental, or graduate schools. The following courses are offered in the department:

- Physics 11-12 General Physics (6 hours)
- Physics 11A-12A General Physics (8 hours)
- General Physics Laboratory (2 hours)
- Advanced General Physics (3 hours)
- Modern Physics (3 hours)
- Mechanics and Heat (3 hours)
- Light (3 hours)
- Electricity (3 hours)
- Elementary Electronics (3 hours)
- Special Problems (1 to 6 hours credit)
- General Astronomy (6 hours)

Each student majoring in the department is urged to take the course in Special Problems during his senior year. This is a laboratory course designed to give the student opportunity to do work on problems in which he has developed a special interest. During the current year students are doing special work with the grating spectrograph and also on transistors. Several students have devised special receiving equipment and have monitored the radio signals from the United States and Russian satellites.

A large number of radiation survey meters are available for special study. Both Beta and Gamma radiation monitors and dosimeters have been placed at the College by the FCDA, and advanced students are given special instruction in the use of these instruments.

Three members of the 1957 graduating class received Atomic Energy Commission Fellowships (valued at \$2500 each) to do graduate work leading to the Master's degree in physics at Vanderbilt University and to engage in research work at Oak Ridge National Laboratory.

One member of the 1958 graduating class received an Atomic Energy Commission Fellowship to do graduate work at the University of Rochester and research at Brookhaven National Laboratory.

## PHYSICS ALUMNI

Below is a report of the activities of some of the Millsaps College graduates who have majored in physics.

**Thomas B. Abernathy**, '50, is scientific analyst for the Atomic Energy Commission in Oak Ridge, Tennessee.

**Pat Allen**, '56, is attending the University of Tennessee Dental School.

**Billy R. Anderson**, '52, is working for International Business Machines Corporation in Jackson, Mississippi.

**Roy Arnold**, '54, received an Atomic Energy Commission Fellowship for graduate work at Vanderbilt and research at Oak Ridge National Laboratory. He is presently completing his dissertation for the Ph.D. degree at Vanderbilt University.

**Louis H. Ball**, '52, is a physicist at the Army Ballistic Missile Agency, Redstone Arsenal, in Huntsville, Alabama. He received his MA degree from the University of Mississippi.

**Lester Benson**, '54, is employed by the U. S. Weather Bureau at Lakeland, Florida.

**John Breazeale**, '47, taught at Grenada High School and Hinds Junior College. He received his M.A. degree from the University of Alabama and the Ph.D. degree from the University of Virginia. He is a research physicist for the Bill Jack Scientific Instrument Company at Solana Beach, California.

**Cecil Earl Brown**, '56, is attending the University of Tennessee Dental School in Memphis, Tennessee.

**Oliver Burford**, '51, received an Atomic Energy Commission Fellowship for graduate work at Vanderbilt and research at Oak Ridge National Laboratory. He has received both his M.A. and Ph.D. degrees and is now working as a physicist for Lockheed Aircraft Company in Atlanta, Georgia.

**Robert E. Burke**, '50, received his D.D.S. degree from Loyola University Dental School and is practicing dentistry in Jackson, Mississippi.

**Howard Cheek**, '55, is attending Tulane University Medical School.

**Ricketts Childress**, '47, is pastor of the Methodist Church at Centreville, Mississippi.

**Robert Clark**, '54, is a physicist with Chance Vaught Aircraft Company in Dallas, Texas.

**Benny Conerly**, '52, received his D.D.S. degree from Emory University Dental School and has opened an office in Tylertown, Mississippi.

**Thomas C. Cooper**, '50, is a physicist with the Armstrong Research and Development Center of Armstrong Cork Company in Lancaster, Pennsylvania.

**Horace Crosby**, '50, is in business in Forest, Mississippi.

**Thomas E. Davidson**, '58, is a communications engineer for the Seaboard Railroad at Norfolk, Virginia.

**Billy Ray Davis**, '57, attended Vanderbilt University Graduate School on an Atomic Energy Commission Fellowship, working toward his M.A. degree. He is now employed as an engineer with Hughes Aircraft Company in Culver City, California.

**Richard Dillard**, '56, taught electronics at Keesler Air Force Base, Biloxi, Mississippi.

**Billy E. Foster**, '57, is attending Vanderbilt University on an Atomic Energy Commission Fellowship, working toward his M.A. degree. He will do his research at Oak Ridge National Laboratory in Oak Ridge, Tennessee.

**Ewin Gaby**, '53, received his M.A. degree and is employed by the Delta Exploration Company of Jackson, Mississippi.

**Ernest Harrison**, '51, is an electronics engineer for Bendix Radio Company in Baltimore, Maryland.

**William B. Holliday**, '50, is employed by the International Business Machines Corporation in Jackson, Mississippi.

**Joseph R. Huggins**, '50, received his E.E. degree from the University of Alabama and is an engineer of test operations on the Armament Test Range at the Air Force Armament Center, Eglin Air Force Base, Florida.

**Harry Hutchinson**, '53, has graduated from medical school and is engaged in private practice.

**Mike Jacobs**, '52, is employed by the Chicago and Northwestern Railroad in Milwaukee, Wisconsin.

**E. C. Jenkins**, '52, is attending graduate school at the University of Wyoming.

**Russell King**, '52, received his D.D.S. degree from the University of Tennessee Dental School. He is practicing dentistry at Greenville, Mississippi.

**James F. Long**, '56, is a physicist with the USAF, doing work in photo optics and infrared systems.

**Gird Astor McCarty**, '58, is with the computer engineering section of International Business Machines.

**Jack McLain**, '49, is with the Southern Research Institute at Birmingham, Alabama. He received his M.A. degree from the University of Mississippi.

**James L. McMillan**, '51, attended the University of Maryland School of Dentistry and has received his D.D.S. degree.

**Leonard Metts**, '49, is minister of music at the First Baptist Church at Clarksdale, Mississippi.

**Henry P. Mills**, '53, is attending the School of Aviation Medicine at Randolph AFB in San Antonio, Texas. He graduated from the University of Mississippi Medical School and interned at Orlando, Florida, Memorial Hospital.

**James E. Mincy**, '54, received a four-year scholarship to Washington University Medical School in St. Louis, Missouri.

**Charles Naef**, '49, received his E.E. degree from the University of Illinois.

**Lawrence E. Norton**, '52, is minister of the Methodist Church at Walnut Grove, Mississippi.

**John Paul Potter**, '58, received an Atomic Energy Commission Fellowship to do graduate work this fall at the University of Rochester and research at Brookhaven National Laboratory.

**Joe J. Powell**, '49, is a distribution engineer for the Mississippi Valley Gas Company in Jackson, Mississippi.

**Charles Prouty**, '51, is employed by Michael Baker Engineers in Jackson, Mississippi.

**Sidney Earl Rhodes**, '51, is employed at Redstone Arsenal and is doing work for the Army Ballistic Missile Agency in Huntsville, Alabama.

**Lester Rich**, '49, is a radar instructor at Keesler Air Force Base in Biloxi, Mississippi.

**Sedley James Robertson**, '57, received an Atomic Energy Commission Fellowship to do graduate work at Vanderbilt and research at the Oak Ridge National Laboratory. He is working toward his M.A. degree.

**Joe Sanderson**, '51, is employed as physicist at the U. S. Waterways Experiment Station in Clinton, Mississippi.

**Grady Sharp**, '50, is in the engineering personnel and administrative offices of the Hughes Aircraft Company in Culver City, California.

**Thomas E. Spell**, '56, is attending the University of Tennessee Dental School.

**Van Stewart**, '48, is teaching and coaching at Natchez High School in Natchez, Mississippi.

**Stanley Turpin**, '55, is employed by the Haliburton Oil Well Cementing Company in Lake Charles, Louisiana.

**Harry Warren**, '50, is in the research department of the Masonite Corporation at Laurel, Mississippi.

**George Williams**, '50, is a Fire Insurance Special Agent for the Commercial Union Assurance Company, Ltd., in Jackson, Mississippi.

**Albert Williamson**, '56, is an electronics engineer with the Hughes Aircraft Company in Los Angeles, California.

**Billy Winans**, '49, is senior instructor in ground electronics at Keesler Air Force Base in Biloxi, Mississippi.

**Donald Youngs**, '56, is an engineer with the International Business Machines Corporation in Jackson, Mississippi.